



## Declaration for Patent Application

LTI 246.4 CIP  
SKGF Ref: 0942.4980006/RWE/AGU

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled: Primers and Methods for the Detection and Discrimination of Nucleic Acids,

the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on December 27, 2001;  
as United States Application Number 10/026,952

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or (f), or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application, which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Country)	(Day/Month/Year Filed)	

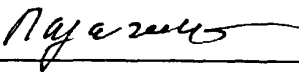
Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	Irina NAZARENKO		
Signature of sole or first inventor		March, 01, 02	Date
Residence	Gaithersburg, Marland		
Citizenship	U.S.A.		
Mailing Address	3 Rudis Way Gaithersburg, Maryland 20878		
Full name of second inventor	Ayoub RASHTCHIAN		
Signature of second inventor			Date
Residence	Gaithersburg, Maryland		
Citizenship	U.S.A.		
Mailing Address	22418 Sweetleaf Lane Gaithersburg, Maryland 20882		
Full name of third inventor	Joseph SOLUS		
Signature of third inventor			Date
Residence	Madison, Alabama		
Citizenship	U.S.A.		
Mailing Address	201 Walden Glen Road Madison, Alabama 35758		

Full name of sole or fourth inventor	Richard M. PIRES
Signature of sole or fourth inventor	
Residence	Germantown, Maryland
Citizenship	U.S.A.
Mailing Address	19430 Breezedale Lane Germantown, MD 20876
Full name of sole or fifth inventor	Marlene DARFLER
Signature of sole or fifth inventor	Date
Residence	Derwood, Maryland
Citizenship	U.S.A.
Mailing Address	7000 Needwood Road Derwood, Maryland 20855
Full name of sole or sixth inventor	Gulilat GEBEYEHU
Signature of sole or sixth inventor	Date
Residence	Potomac, Maryland
Citizenship	U.S.A.
Mailing Address	12400 Rivers Edge Drive Potomac, Maryland 20854
Full name of sole or seventh inventor	Mekbib ASTATKE
Signature of sole or seventh inventor	Date
Residence	Germantown, Maryland
Citizenship	U.S.A.
Mailing Address	18364 Timko Lane Germantown, Maryland 20874

(Supply similar information and signature for subsequent joint inventors, if any)



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Priority Claimed

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(Application No.)

\_\_\_\_\_  
(Country)

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☐ Yes ☐ No

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Full name of sole or first inventor	Irina NAZARENKO	
Signature of sole or first inventor	Date	
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Citizenship	U.S.A.	
Mailing Address	3 Rudis Way Gaithersburg, Maryland 20878	
Full name of second inventor	Ayoub RASHTCHIAN	
Signature of second inventor		Date 3/3/02
Residence	Gaithersburg, Maryland	
Citizenship	U.S.A.	
Mailing Address	22418 Sweetleaf Lane Gaithersburg, Maryland 20882	
Full name of third inventor	Joseph SOLUS	
Signature of third inventor	Date	
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(Supply similar information and signature for subsequent joint inventors, if any)



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Priority Claimed

\_\_\_\_\_  
(Application No.)                      (Country)                      (Day/Month/Year Filed)

☐ Yes      ☐ No

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☐ Yes      ☐ No

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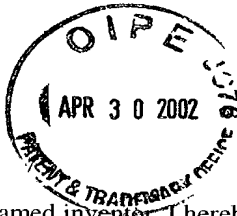
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Signature of sole or fourth inventor	
Residence	Germantown, Maryland
Citizenship	U.S.A.
Mailing Address	19430 Breezedale Lane Germantown, MD 20876
Full name of sole or fifth inventor	Marlene DARFLER
Signature of sole or fifth inventor	Date
Residence	Derwood, Maryland
Citizenship	U.S.A.
Mailing Address	7000 Needwood Road Derwood, Maryland 20855
Full name of sole or sixth inventor	Gulilat GEBEYEHU
Signature of sole or sixth inventor	Date
Residence	Potomac, Maryland
Citizenship	U.S.A.
Mailing Address	12400 Rivers Edge Drive Potomac, Maryland 20854
Full name of sole or seventh inventor	Mekbib ASTATKE
Signature of sole or seventh inventor	Date
Residence	Germantown, Maryland
Citizenship	U.S.A.
Mailing Address	18364 Timko Lane Germantown, Maryland 20874

(Supply similar information and signature for subsequent joint inventors, if any)



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Full name of sole or fourth inventor	Richard M. PIRES	
Signature of sole or fourth inventor	<i>Richard M. Pires</i>	Date 2/27/02
Residence	Germantown, Maryland DAMASCUS MD	
Citizenship	U.S.A.	
Mailing Address	19430 Breezedale Lane 10719 BETHESDA CHURCH RD Germantown, MD 20876 DAMASCUS MD 20872	
Full name of sole or fifth inventor	Marlene DARFLER	
Signature of sole or fifth inventor	Date	
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Citizenship	U.S.A.	
Mailing Address	7000 Needwood Road Derwood, Maryland 20855	
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Signature of sole or sixth inventor	<i>Guhlat Gebeyehu</i>	Date 3/8/02
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\_\_\_\_\_  
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Signature of second inventor	Date
Residence	Gaithersburg, Maryland
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Full name of third inventor	Joseph SOLUS
Signature of third inventor	Date
Residence	Madison, Alabama
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Mailing Address	201 Walden Glen Road Madison, Alabama 35758

(Supply similar information and signature for subsequent joint inventors, if any)



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## POWER OF ATTORNEY FROM ASSIGNEE

Invitrogen Corporation, a corporation of Delaware, having a principal place of business at 1600 Faraday Avenue, Carlsbad, CA 92008, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on 1) 3/1/02; 2) 3/3/02; 3) 2/28/02; 4) 2/27/02; 5) 3/1/02; 6) 2/28/02; 7) 3/4/02 of an invention known as Primers and Methods for the Detection and Discrimination of Nucleic Acids (Attorney Docket No. 0942.4980006/RWE/AGU), which is disclosed and claimed in a patent application of the same title by the inventor(s) 1) Irina NAZARENKO, 2) Ayoub RASHTCHIAN, 3) Joseph SOLUS, 4) Richard M. PIRES, 5) Marlene DARFLER, 6) Gulilat GEBEYEHU, 7) Mekbib ASTATKE (said application filed December 27, 2001 at the U.S. Patent and Trademark Office, having Application Number 10/026,952).

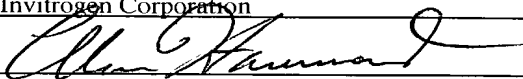
Rule  
Reg No.  
32,893

The Assignee hereby appoint the U.S. attorneys associated with **CUSTOMER NUMBER 28393** to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

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U.S.A.

Direct phone calls to 202-371-2600.

FOR: Invitrogen Corporation  
SIGNATURE:   
BY: Alan W. Hammond  
TITLE: Chief Intellectual Property Counsel  
DATE: 3/13/2002



**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

LTI 246.4 CIP

SKGF Ref: 0942.4980006/RWE/AGU

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) Irina NAZARENKO, 2) Ayoub RASHTCHIAN, 3) Joseph SOLUS, 4) Richard M. PIRES, 5) Marlene DARFLER, 6) Gulilat GEBEYEHU, 7) Mekbib ASTATKE, the undersigned inventor(s) hereby sell(s) and assign(s) to Invitrogen Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Primers and Methods for the Detection and Discrimination of Nucleic Acids for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 3/1/02 ; 2) ; 3) ; 4) ; 5) ; 6) ; 7) (also known as United States Application No. (10/026,952/RWE/AGU), filed December 27, 2001, in any and all applications thereon, in any and all Letters Patent(s) therefor, and

Ruo  
Reg No. 32893

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 13-01-02 Signature of Inventor: *Irina Nazarenko*  
Irina NAZARENKO

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Ayoub RASHTCHIAN

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Joseph SOLUS

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Richard M. PIRES

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Marlene DARFLER

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Gulilat GEBEYEHU

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Mekbib ASTATKE

11/03/02 11:37 AM  
DO NOT FORWARD  
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check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Primers and Methods for the Detection and Discrimination of Nucleic Acids for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) \_\_\_\_\_; 2) 3/3/02; 3) \_\_\_\_\_; 4) \_\_\_\_\_; 5) \_\_\_\_\_; 6) \_\_\_\_\_; 7) \_\_\_\_\_ (also known as United States Application No. (10/026,952/RWE/AGU), filed December 27, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

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Reg. No. 32,893

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.



DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

SKGF Ref: 0942.4980006/RWE/AGU

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) Irina NAZARENKO, 2) Ayoub RASHTCHIAN, 3) Joseph SOLUS, 4) Richard M. PIRES, 5) Marlene DARFLER, 6) Gulilat GEBEYEHU, 7) Mekbib ASTATKE, the undersigned inventor(s) hereby sell(s) and assign(s) to Invitrogen Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

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Reg No. 32,893*

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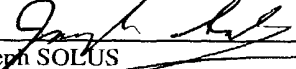
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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Irina NAZARENKO

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Ayoub RASHTCHIAN

Date: 28 February 2002 Signature of Inventor:   
Joseph SOLUS

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Richard M. PIRES

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Marlene DARFLER

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Gulilat GEBEYEHU

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Mekbib ASTATKE

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LTI 246.4 CIP  
SKGF Ref: 0942.4980006/RWE/AGU

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and all applications thereon, in any and all Letters Patent(s) therefor, and

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Irina NAZARENKO

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Ayoub RASHTCHIAN

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Joseph SOLUS

Date: 2/27/02 Signature of Inventor: Richard m. Pires  
Richard M. PIRES

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Marlene DARFLER

Date: 2/28/02 Signature of Inventor: Gulilat Gebeyehu  
Gulilat GEBEYEHU

Date: 3/4/02 Signature of Inventor: Mekbib Astatke  
Mekbib ASTATKE



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Joseph SOLUS

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
Richard M. PIRES

Date: 3-11-02 Signature of Inventor: Marlene Darfler  
Marlene DARFLER

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
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